

25

Please pick

Work Order ID 141575

141575

Page 1

Friday, February 05, 2016 8:27:35 AM

Item ID: 646.9502 Accept *N900040100* Setup Start *NS1*

Revision ID: Stop *NS2*

Item Name: 206A / B / L Cable Cutter System, Low

Start Date: 2/16/2016 Start Qty: 1.00 *1*

Required Date: 2/23/2016 Req'd Qty: 1.00 *1*

Reference: 4/22/2016 Cust Item ID:

Customer:

Approvals: Process Plan: MCS Date: FEB 09 2016 Tooling: Date:

QC: Date: SPC (Y/N): Date:

Run Start *NR1*

Stop *NR2*

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
Draw Nbr	Revision Nbr								
646.9500	N/C								
100	Document Control	0.00							
100	DOCUMENT CONTROL								
DC	Memo	0.00							
Doc.Control -USB or Paperwork	Photocopy bluefile & type labels per PPP 646.9502								
110	Pick Kit	0.00							
110									
Packaging	Memo	0.00							
Packaging									
120	QC4- 100% Inspect kits for completeness	0.00							
120									
QC	Memo	0.00							
Quality Control									

DAS
6
9-89DAS
28
9-89

APR 25 2016

APR 18 2016

DAS
6
9-89SMB
16/4/25DAS
28
9-89

APR 25 2016

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐							
Date :		Step #:		QTY Effective :				MRB (QSI042) Approval			
Description Work Order Deviation				Disposition				Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval			
Root Cause		FAULT CATEGORY									
Environment ☐	No Re-verification ☐	Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐	Design ☐	Operator ☐	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐
Doc/Data ☐	Offset/Setup ☐	Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐	Equip/Tooling ☐	Supplier ☐	Cracks ☐	Broken/Damage/Defect ☐	Weld ☐	Part Incorrect ☐
Handling/Pre ☐	Training ☐	Crimp/Kink/Ripple/Wave ☐	Inspection Incomplete/Unqualified ☐	Wrong Stock Pulled ☐	Part Lost/Missing ☐	Material ☐	Use for Testing ☐	Cuffs ☐	Contamination ☐	Out of Sequence ☐	Part Moved ☐
Internal Transport ☐	Poor Information ☐	Crushing ☐	Countersink ☐	Off-set ☐	Drawing ☐	Tribal Knowledge ☐	Rushing ☐	Heat Treat ☐	Cut Too Short ☐	Mislabeled ☐	Finish ☐
LOA ☐	Product Improvement ☐	Wave/Twist in Tube ☐	Instructions Incomplete/Unclear ☐	Fit/Function ☐	Misread ☐	Substation ☐	Process Improvement ☐	Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐
Past Expiry Date ☐	Manufacturing Process ☐	OTHER : ☐									
Misidentified ☐	Past Due ☐										

Work Order ID 141575

Friday, February 05, 2016 8:27:35 AM

141575

Page 2

Item ID: 646.9502 Accept ***N900040100*** Setup Start ***NS1***
Revision ID: Stop ***NS2***
Item Name: 206A / B / L Cable Cutter System, Low
Start Date: 2/16/2016 Start Qty: 1.00 ***1*** Cust Item ID:
Required Date: 2/23/2016 Req'd Qty: 1.00 ***1*** Customer:
Reference:

Approvals: Process Plan: _____ Date: _____ Tooling: _____ Date: _____ Run Start ***NR1***
QC: _____ Date: _____ SPC (Y/N): _____ Date: _____ Stop ***NR2***

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
130		0.00							
130	Packaging								
Packaging	Memo	0.00							
Packaging	Identify and pack for shipping as per PPP 646.9502 Location :FG101								
		<i>Sold</i>							
140	QC21- Final Inspection - Work Order Release	0.00							
140									
QC	Memo	0.00							
Quality Control									

M. D. **BAS**
27
9-89 **APR 25 2016**

MUS **APR 25 2016**

MF
16-4-25

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :			MRB (QSI042) Approval Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval		
Description Work Order Deviation				Disposition					

Root Cause				FAULT CATEGORY							
Environment	☐	No Re-verification	☐	Pressure/Forced	☐	Temperature/Cure	☐	Power Loss/Surge	☐	Positioned Wrong	☐
Design	☐	Operator	☐	Bending	☐	Set-up	☐	Folio/Program	☐	Outside Dimensions	☐
Doc/Data	☐	Offset/Setup	☐	Centre Not Concentric	☐	BOM/Route	☐	Grain	☐	Over/Under tolerance	☐
Equip/Tooling	☐	Supplier	☐	Cracks	☐	Broken/Damage/Defect	☐	Weld	☐	Part Incorrect	☐
Handling/Pre	☐	Training	☐	Crimp/Kink/Ripple/Wave	☐	Inspection Incomplete/Unqualified	☐	Wrong Stock Pulled	☐	Part Lost/Missing	☐
Material	☐	Use for Testing	☐	Cuffs	☐	Contamination	☐	Out of Sequence	☐	Part Moved	☐
Internal Transport	☐	Poor Information	☐	Crushing	☐	Countersink	☐	Off-set	☐	Drawing	☐
Tribal Knowledge	☐	Rushing	☐	Heat Treat	☐	Cut Too Short	☐	Mislabeled	☐	Finish	☐
LOA	☐	Product Improvement	☐	Wave/Twist in Tube	☐	Instructions Incomplete/Unclear	☐	Fit/Function	☐	Misread	☐
Substation	☐	Process Improvement	☐	Marks/Chatter	☐	Drill Holes	☐	Misaligned/off center	☐	Turning Sequence	☐
Past Expiry Date	☐	Manufacturing Process	☐	OTHER : _____							
Misidentified	☐	Past Due	☐								

Picklist Print

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Page 1

Work Order ID: 141575

141575

Parent Item: 646.9502

646 9502

Parent Item Name: 206A / B / L Cable Cutter System, Low

Start Date: 2/16/2016

Required Date: 2/23/2016

Start Qty: 1.00

Required Qty: 1.00

Comments: IPP REV:A 12.08.28 NEW ISSUE DD VERF:JLM

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
646.9601 *646 9601* Upper Cutter Assy DAS 28 9-89		Manufactured	No			110	Each	8.0000	1	1			DAS 6 9-89
				<u>Location</u>				<u>Loc Qty</u>		<u>Loc Code</u>			
				cck039				8					DAS 27 9-89
				124734				2					
				128183				6					
646.9603 *646 9603* Lower Cutter Assy Low DAS 28 9-89		Manufactured	No			110	Each	1.0000	1	1			DAS 6 9-89
				<u>Location</u>				<u>Loc Qty</u>		<u>Loc Code</u>			DAS 27 9-89
				CCK036				1					
				136105				1					
646.9810 *646 9810* Deflector DAS 28 9-89		Manufactured	No			110	Each	0.0000	1	1			DAS 6 9-89
				<u>Location</u>				<u>Loc Qty</u>		<u>Loc Code</u>			DAS 27 9-89
647.0210 *647 0210* Rail DAS 28 9-89		Manufactured	No			110	Each	15.0000	1	1			DAS 6 9-89
				<u>Location</u>				<u>Loc Qty</u>		<u>Loc Code</u>			DAS 27 9-89
				CCK089				15					
				91440				15					

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

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Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :			MRB (QSI042) Approval		
Description Work Order Deviation				Disposition				Completed By	
								Lead hand / Supervisor Approval Verification	
Root Cause		FAULT CATEGORY							
Environment ☐	No Re-verification ☐	Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐				
Design ☐	Operator ☐	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐				
Doc/Data ☐	Offset/Setup ☐	Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐				
Equip/Tooling ☐	Supplier ☐	Cracks ☐	Broken/Damage/Defect ☐	Weld ☐	Part Incorrect ☐				
Handling/Pre ☐	Training ☐	Crimp/Kink/Ripple/Wave ☐	Inspection Incomplete/Unqualified ☐	Wrong Stock Pulled ☐	Part Lost/Missing ☐				
Material ☐	Use for Testing ☐	Cuffs ☐	Contamination ☐	Out of Sequence ☐	Part Moved ☐				
Internal Transport ☐	Poor Information ☐	Crushing ☐	Countersink ☐	Off-set ☐	Drawing ☐				
Tribal Knowledge ☐	Rushing ☐	Heat Treat ☐	Cut Too Short ☐	Mislabeled ☐	Finish ☐				
LOA ☐	Product Improvement ☐	Wave/Twist in Tube ☐	Instructions Incomplete/Unclear ☐	Fit/Function ☐	Misread ☐				
Substation ☐	Process Improvement ☐	Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐				
Past Expiry Date ☐	Manufacturing Process ☐	OTHER : _____							
Misidentified ☐	Past Due ☐								

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Work Order ID: 141575

141575

Parent Item: 646.9502

646.9502

Parent Item Name: 206A / B / L Cable Cutter System, Low

Start Date: 2/16/2016

Required Date: 2/23/2016

Start Qty: 1.00

Required Qty: 1.00

647.0110	Manufactured	No	110	Each	6.0000	1	1			
647 0110										
Roof Doubler										

DAS
28
9-89

<u>Location</u>	<u>Loc Qty</u>	<u>Loc Code</u>
CCK088	6	
116709	6	

DAS
6
9-89

DAS
27
9-89

647.0310	Manufactured	No	110	Each	15.0000	2	2			
647 0310										
Channel										

DAS
28
9-89

<u>Location</u>	<u>Loc Qty</u>	<u>Loc Code</u>
CCK090	15	
116955	8	
122989	7	

DAS
6
9-89

DAS
27
9-89

646.9910	Manufactured	No	110	Each	39.0000	4	4			
646 9910										
Struts										

DAS
28
9-89

<u>Location</u>	<u>Loc Qty</u>	<u>Loc Code</u>
CCK014	39	
93189	39	

DAS
6
9-89

DAS
27
9-89

647.0112	Manufactured	No	110	Each	43.0000	8	8			
647 0112										
Strut Bracket										

DAS
28
9-89

<u>Location</u>	<u>Loc Qty</u>	<u>Loc Code</u>
CCK107	43	
M130388	43	

DAS
6
9-89

DAS
27
9-89

APR 18 2016

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Page 2

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :			MRB (QSI042) Approval Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval		
Description Work Order Deviation				Disposition					

Root Cause Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐				FAULT CATEGORY Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Misabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐							
				OTHER : ☐							

Picklist Print

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Work Order ID: 141575

141575

Parent Item: 646.9502

646.9502

Parent Item Name: 206A / B / L Cable Cutter System, Low

Start Date: 2/16/2016

Required Date: 2/23/2016

Start Qty: 1.00

Required Qty: 1.00

647.0113 Manufactured No

110 Each 7.0000 2 2

647 0113

Strut Doubler

**

142256

DAS
6
9-89 BAS
27
9-89

DAS
28
9-89

Location

Loc Qty

Loc Code

CCK089

7

117864

1

136193

6

647.0111 Manufactured No

110 Each 11.0000 1 1

647 0111

Panel

**

DAS
6
9-89 BAS
27
9-89

DAS
28
9-89

Location

Loc Qty

Loc Code

CCK088

11

116830

5

126233

6

647.0116 Manufactured No

110 Each 31.0000 2 2

647 0116

Doubler

**

DAS
6
9-89 BAS
27
9-89

DAS
28
9-89

Location

Loc Qty

Loc Code

CCK107

31

123001

11

126234

20

647.0410 Manufactured No

110 Each 10.0000 1 1

647 0410

Tube

**

DAS
6
9-89 BAS
27
9-89

DAS
28
9-89

Location

Loc Qty

Loc Code

CCK107

10

127917

2

138413

8

APR 18 2016

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Shop Packet Print

Page 3

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :			MRB (QSI042) Approval Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval		
Description Work Order Deviation				Disposition					
Root Cause Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐		FAULT CATEGORY Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐		Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Mislabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐					
OTHER : ☐									

Picklist Print

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Work Order ID: 141575

141575

Parent Item: 646.9502

646 9502

Parent Item Name: 206A / B / L Cable Cutter System, Low

Start Date: 2/16/2016

Required Date: 2/23/2016

Start Qty: 1.00

Required Qty: 1.00

647.0114 Manufactured No

110 Each 72.0000 1 1

647 0114

Clip

**

DAS
6 27
9-89 9-89

Location

Loc Qty

Loc Code

CCK107

72

106616

72

647.0115 Manufactured No

110 Each 67.0000 1 1

647 0115

Clip

**

DAS
6 27
9-89 9-89

Location

Loc Qty

Loc Code

cc107

67

106617

67

NAS1149FN832P Purchased No

110 Each 3,171.000 111 111

NAS1149FN832P

Washer

**

DAS
6 27
9-89 9-89

Location

Loc Qty

Loc Code

GA

1661

M133316

16

M133769

1645

ST262

1510

M133709

1510

DAS
28
9-89

APR 18 2016

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :			MRB (QSI042) Approval		
Description Work Order Deviation				Disposition				Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval	
Root Cause		FAULT CATEGORY							
Environment ☐	No Re-verification ☐	Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐				
Design ☐	Operator ☐	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐				
Doc/Data ☐	Offset/Setup ☐	Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐				
Equip/Tooling ☐	Supplier ☐	Cracks ☐	Broken/Damage/Defect ☐	Weld ☐	Part Incorrect ☐				
Handling/Pre ☐	Training ☐	Crimp/Kink/Ripple/Wave ☐	Inspection Incomplete/Unqualified ☐	Wrong Stock Pulled ☐	Part Lost/Missing ☐				
Material ☐	Use for Testing ☐	Cuffs ☐	Contamination ☐	Out of Sequence ☐	Part Moved ☐				
Internal Transport ☐	Poor Information ☐	Crushing ☐	Countersink ☐	Off-set ☐	Drawing ☐				
Tribal Knowledge ☐	Rushing ☐	Heat Treat ☐	Cut Too Short ☐	Mislabeled ☐	Finish ☐				
LOA ☐	Product Improvement ☐	Wave/Twist in Tube ☐	Instructions Incomplete/Unclear ☐	Fit/Function ☐	Misread ☐				
Substation ☐	Process Improvement ☐	Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐				
Past Expiry Date ☐	Manufacturing Process ☐	OTHER : _____							
Misidentified ☐	Past Due ☐								

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Work Order ID: 141575

141575

Parent Item: 646.9502

646.9502

Parent Item Name: 206A / B / L Cable Cutter System, Low

Start Date: 2/16/2016

Required Date: 2/23/2016

Start Qty: 1.00

Required Qty: 1.00

NAS1149F0332P

Purchased

No

110

Each

3,524.000

62

62

**

134257

DAS
6 27
9-89 9-89

NAS1149F0332P

Washer

DAS
28
9-89

Location

Loc Qty

Loc Code

GA

396

m133709

396

ST260a

1500

m134134

1500

ST262

1628

m133938

128

m134055

1500

AN3-11A

Purchased

No

110

Each

332.0000

8

8

**

DAS
6 27
9-89 9-89

AN3-11A

Bolt

DAS
28
9-89

Location

Loc Qty

Loc Code

over003

100

m133992

100

OVERoo3

200

m134167

200

ST349

32

m133561

32

MS21042-3

MS21042L3

Purchased

No

110

Each

18.0000

17

17

**

134860

DAS
6 27
9-89 9-89

MS21042-3

Nut / use MS21042L3

DAS
28
9-89

Location

Loc Qty

Loc Code

ST304

18

M129682

18

APR 18 2016

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DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :			MRB (QSI042) Approval		
Description Work Order Deviation				Disposition				Completed By	
								Lead hand / Supervisor Approval Verification	
Root Cause		FAULT CATEGORY							
Environment ☐	No Re-verification ☐	Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐				
Design ☐	Operator ☐	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐				
Doc/Data ☐	Offset/Setup ☐	Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐				
Equip/Tooling ☐	Supplier ☐	Cracks ☐	Broken/Damage/Defect ☐	Weld ☐	Part Incorrect ☐				
Handling/Pre ☐	Training ☐	Crimp/Kink/Ripple/Wave ☐	Inspection Incomplete/Unqualified ☐	Wrong Stock Pulled ☐	Part Lost/Missing ☐				
Material ☐	Use for Testing ☐	Cuffs ☐	Contamination ☐	Out of Sequence ☐	Part Moved ☐				
Internal Transport ☐	Poor Information ☐	Crushing ☐	Countersink ☐	Off-set ☐	Drawing ☐				
Tribal Knowledge ☐	Rushing ☐	Heat Treat ☐	Cut Too Short ☐	Mislabeled ☐	Finish ☐				
LOA ☐	Product Improvement ☐	Wave/Twist in Tube ☐	Instructions Incomplete/Unclear ☐	Fit/Function ☐	Misread ☐				
Substation ☐	Process Improvement ☐	Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐				
Past Expiry Date ☐	Manufacturing Process ☐	OTHER : _____							
Misidentified ☐	Past Due ☐								

Picklist Print

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Page 6

Work Order ID: 141575

141575

Parent Item: 646.9502

646 9502

Parent Item Name: 206A / B / L Cable Cutter System, Low

Start Date: 2/16/2016

Required Date: 2/23/2016

Start Qty: 1.00

Required Qty: 1.00

CCR264SS-3-06

Purchased

No

110

Each

129.0000

8

8

CCR264SS-3-06

Rivet

**

DAS 27
6 9-89

DAS
28
9-89

Location

Loc Qty

Loc Code

ST321

129

m131317

29

m133988

100

MS21059L08

Purchased

No

110

Each

203.0000

4

4

MS21059L 08

Nut

**

DAS 27
6 9-89

DAS
28
9-89

Location

Loc Qty

Loc Code

CCK007

200

m133686

200

ST299

3

m131697

3

CR3213-4-05

Purchased

No

110

Each

162.0000

26

26

CR3213-4-05

RIVET

**

DAS 27
6 9-89

DAS
28
9-89

Location

Loc Qty

Loc Code

CCK003

100

m134167

100

ST319

62

m133561

62

CR3213-4-6

Purchased

No

110

Each

451.0000

20

20

CR3213-4-6

Rivet

**

DAS 27
6 9-89

06

DAS
28
9-89

Location

Loc Qty

Loc Code

CCK003

400

M131800

400

ST319

51

M130388

51

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DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐			
Date : _____	Step #: _____	QTY Effective : _____		MRB (QSI042) Approval	
Description Work Order Deviation		Disposition		Completed By	
				Lead hand / Supervisor Approval Verification	
				QC / QA Coordinator Approval	
Root Cause Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐		FAULT CATEGORY Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Misabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐			
OTHER : ☐					

Picklist Print

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Page 7

Work Order ID: 141575

141575

Parent Item: 646.9502

646 9502

Parent Item Name: 206A / B / L Cable Cutter System, Low

Start Date: 2/16/2016

Required Date: 2/23/2016

Start Qty: 1.00

Required Qty: 1.00

CR3213-4-4

Purchased

No

110

Each

264.0000

19

19

CR3213-4-4

Rivet, Cherry

DAS
6 27
9-89 9-89

DAS
28
9-89

Location

Loc Qty

Loc Code

CCK004

212

M133694

212

ST319

48

M130388

48

ST320

4

126282

4

CR3213-4-2

Purchased

No

110

Each

430.0000

18

18

CR3213-4-2

Cherry Rivet

DAS
6 27
9-89 9-89

DAS
28
9-89

Location

Loc Qty

Loc Code

CCK003

192

~~123301~~

192

ST319

238

m131340

238

CR3213-4-3

Purchased

No

110

Each

614.0000

18

18

CR3213-4-3

Rivet, Cherry

DAS
6 27
9-89 9-89

DAS
28
9-89

Location

Loc Qty

Loc Code

CCK004

140

m129541

100

m130388

40

ST318

200

m131340

200

ST320

274

123301

274

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DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :			MRB (QSI042) Approval 		
Description Work Order Deviation				Disposition					
							Completed By		
							Lead hand / Supervisor Approval Verification		
QC / QA Coordinator Approval									

Root Cause			FAULT CATEGORY							
Environment ☐	☐	No Re-verification	☐	Pressure/Forced	☐	Temperature/Cure	☐	Power Loss/Surge	☐	Positioned Wrong
Design ☐	☐	Operator	☐	Bending	☐	Set-up	☐	Folio/Program	☐	Outside Dimensions
Doc/Data ☐	☐	Offset/Setup	☐	Centre Not Concentric	☐	BOM/Route	☐	Grain	☐	Over/Under tolerance
Equip/Tooling ☐	☐	Supplier	☐	Cracks	☐	Broken/Damage/Defect	☐	Weld	☐	Part Incorrect
Handling/Pre ☐	☐	Training	☐	Crimp/Kink/Ripple/Wave	☐	Inspection Incomplete/Unqualified	☐	Wrong Stock Pulled	☐	Part Lost/Missing
Material ☐	☐	Use for Testing	☐	Cuffs	☐	Contamination	☐	Out of Sequence	☐	Part Moved
Internal Transport ☐	☐	Poor Information	☐	Crushing	☐	Countersink	☐	Off-set	☐	Drawing
Tribal Knowledge ☐	☐	Rushing	☐	Heat Treat	☐	Cut Too Short	☐	Mislabeled	☐	Finish
LOA ☐	☐	Product Improvement	☐	Wave/Twist in Tube	☐	Instructions Incomplete/Unclear	☐	Fit/Function	☐	Misread
Substation ☐	☐	Process Improvement	☐	Marks/Chatter	☐	Drill Holes	☐	Misaligned/off center	☐	Turning Sequence
Past Expiry Date ☐	☐	Manufacturing Process	OTHER : _____							
Misidentified ☐	☐	Past Due								

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Work Order ID: 141575

141575

Parent Item: 646.9502

646.9502

Parent Item Name: 206A / B / L Cable Cutter System, Low

Start Date: 2/16/2016

Required Date: 2/23/2016

Start Qty: 1.00

Required Qty: 1.00

MS21047-3

Purchased

No

110

Each

385.0000

6

6

MS21047-3

Nut Plate

**

DAS

DAS

6

27

9-89

9-89

DAS
28
9-89

Location

Loc Qty

Loc Code

over005

200

m134166

200

ST301

185

m133938

85

m134055

100

MS21042-08

MS21042L08

Purchased

No

110

Each

33.0000

54

54

MS21042-08

USE MS21042L08

**

DAS

DAS

6

27

9-89

9-89

DAS
28
9-89

Location

Loc Qty

Loc Code

ST304

25

122815

25

ST306

8

m130388

8

MS27039-08-13

Purchased

No

110

Each

312.0000

6

6

MS27039-08-13

Screw

**

DAS

DAS

6

27

9-89

9-89

DAS
28
9-89

Location

Loc Qty

Loc Code

ST278

312

124326

312

APR 18 2016

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :			MRB (QSI042) Approval Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval		
Description Work Order Deviation				Disposition					
Root Cause		FAULT CATEGORY							
Environment ☐	No Re-verification ☐	Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐				
Design ☐	Operator ☐	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐				
Doc/Data ☐	Offset/Setup ☐	Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐				
Equip/Tooling ☐	Supplier ☐	Cracks ☐	Broken/Damage/Defect ☐	Weld ☐	Part Incorrect ☐				
Handling/Pre ☐	Training ☐	Crimp/Kink/Ripple/Wave ☐	Inspection Incomplete/Unqualified ☐	Wrong Stock Pulled ☐	Part Lost/Missing ☐				
Material ☐	Use for Testing ☐	Cuffs ☐	Contamination ☐	Out of Sequence ☐	Part Moved ☐				
Internal Transport ☐	Poor Information ☐	Crushing ☐	Countersink ☐	Off-set ☐	Drawing ☐				
Tribal Knowledge ☐	Rushing ☐	Heat Treat ☐	Cut Too Short ☐	Mislabeled ☐	Finish ☐				
LOA ☐	Product Improvement ☐	Wave/Twist in Tube ☐	Instructions Incomplete/Unclear ☐	Fit/Function ☐	Misread ☐				
Substation ☐	Process Improvement ☐	Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐				
Past Expiry Date ☐	Manufacturing Process ☐	OTHER : _____							
Misidentified ☐	Past Due ☐								

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Work Order ID: 141575

141575

Parent Item: 646.9502

646.9502

Parent Item Name: 206A / B / L Cable Cutter System, Low

Start Date: 2/16/2016

Required Date: 2/23/2016

Start Qty: 1.00

Required Qty: 1.00

MS21059-3

Purchased

No

110

Each

541.0000

2

2

MS21059-3

Nut Plate

**

DAS

6

9-89

DAS

27

9-89

DAS
28
9-89

Location

Loc Qty

Loc Code

CA

6

123301

6

ST301

535

123023

50

123900

485

2

AN743-13

Purchased

No

110

Each

37.0000

1

1

AN743-13

Bracket

**

DAS

6

9-89

DAS

27

9-89

DAS
28
9-89

Location

Loc Qty

Loc Code

ST330

37

M129732

37

1

AN3-3A

Purchased

No

110

Each

259.0000

1

1

AN3-3A

Bolt

**

DAS

6

9-89

DAS

27

9-89

DAS
28
9-89

Location

Loc Qty

Loc Code

ST350

259

m131624

101

m133833

58

m134034

100

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DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :				MRB (QSI042) Approval	
Description Work Order Deviation				Disposition				Completed By	
								Lead hand / Supervisor Approval Verification	
Root Cause		FAULT CATEGORY							
Environment ☐	No Re-verification ☐	Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐				
Design ☐	Operator ☐	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐				
Doc/Data ☐	Offset/Setup ☐	Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐				
Equip/Tooling ☐	Supplier ☐	Cracks ☐	Broken/Damage/Defect ☐	Weld ☐	Part Incorrect ☐				
Handling/Pre ☐	Training ☐	Crimp/Kink/Ripple/Wave ☐	Inspection Incomplete/Unqualified ☐	Wrong Stock Pulled ☐	Part Lost/Missing ☐				
Material ☐	Use for Testing ☐	Cuffs ☐	Contamination ☐	Out of Sequence ☐	Part Moved ☐				
Internal Transport ☐	Poor Information ☐	Crushing ☐	Countersink ☐	Off-set ☐	Drawing ☐				
Tribal Knowledge ☐	Rushing ☐	Heat Treat ☐	Cut Too Short ☐	Mislabeled ☐	Finish ☐				
LOA ☐	Product Improvement ☐	Wave/Twist in Tube ☐	Instructions Incomplete/Unclear ☐	Fit/Function ☐	Misread ☐				
Substation ☐	Process Improvement ☐	Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐				
Past Expiry Date ☐	Manufacturing Process ☐	OTHER : _____							
Misidentified ☐	Past Due ☐								

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Work Order ID: 141575

141575

Parent Item: 646.9502

646.9502

Parent Item Name: 206A / B / L Cable Cutter System, Low

Start Date: 2/16/2016

Required Date: 2/23/2016

Start Qty: 1.00

Required Qty: 1.00

CCR264SS3-04

Purchased

No

110

Each

603.0000

12

12

DAS
6 27
9-89 9-89

CCR264SS3-04

Rivet

DAS
28
9-89

Location

Loc Qty

Loc Code

CCK004

590

123785

400

m129702

190

ST321

13

123352

13

CR3212-5-4

Purchased

No

110

Each

200.0000

8

8

DAS
6 27
9-89 9-89

CR3212-5-4

Cherry Rivet

DAS
28
9-89

Location

Loc Qty

Loc Code

CCK005

200

m133709

200

CCR264SS3-2

CCR264SS3-02

Purchased

No

110

Each

0.0000

4

4

DAS
6 27
9-89 9-89

CCR264SS3-2

Rivet, Cherry

DAS
28
9-89

NAS1835-08

Purchased

No

110

Each

48.0000

4

4

DAS
6 27
9-89 9-89

NAS1835-08

Insert

DAS
28
9-89

Location

Loc Qty

Loc Code

st549

48

m129913

48

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DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐			
Date : _____	Step #: _____	QTY Effective : _____		MRB (QSI042) Approval	
Description Work Order Deviation		Disposition		Completed By	
				Lead hand / Supervisor Approval Verification	
				QC / QA Coordinator Approval	
Root Cause Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐		FAULT CATEGORY Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Misabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐			
OTHER : ☐					

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Work Order ID: 141575

141575

Parent Item: 646.9502

646.9502

Parent Item Name: 206A / B / L Cable Cutter System, Low

Start Date: 2/16/2016

Required Date: 2/23/2016

Start Qty: 1.00

Required Qty: 1.00

CR3213-4-1

Purchased

No

110

Each

122.0000

14

14

DAS
6
9-89
BAS
27
9-89

CR3213-4-1

Cherry Rivet

**

DAS
28
9-89

Location

Loc Qty

Loc Code

CCK005

100

m133577

100

ST320

22

m131340

22

MS27039-1-08

Purchased

No

110

Each

437.0000

5

5

DAS
6
9-89
BAS
27
9-89

MS27039-1-08

Screw

**

DAS
28
9-89

Location

Loc Qty

Loc Code

CA

8

m128636

8

FP001

269

m128636

269

GA

90

125654

2

m128636

88

ST281

70

m128636

70

647.1210

Manufactured

No

110

Each

3.0000

1

1

DAS
6
9-89
BAS
27
9-89

647.1210

Screen

**

DAS
28
9-89

Location

Loc Qty

Loc Code

CCK107

3

126236

3

APR 1 8 2016

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐			
Date : _____	Step #: _____	QTY Effective : _____		MRB (QSI042) Approval	
Description Work Order Deviation		Disposition		Completed By _____ Lead hand / Supervisor Approval Verification _____ QC / QA Coordinator Approval _____	
Root Cause Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐		FAULT CATEGORY Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Mislabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐			
OTHER : ☐ _____					

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Work Order ID: 141575

141575

Parent Item: 646.9502

646.9502

Parent Item Name: 206A / B / L Cable Cutter System, Low

Start Date: 2/16/2016

Required Date: 2/23/2016

Start Qty: 1.00

Required Qty: 1.00

MS35842-11

Purchased

No

110

Each

13.0000

1

1

MS35842-11

Hose Clamp

**

DAS BAS
6 27
9-89 9-89

DAS
28
9-89

Location

Loc Qty

Loc Code

ST269

13

m133561

3

m134039

10

MS27039-08-11

Purchased

No

110

Each

462.0000

43

43

MS27039-08-11

SCREW

**

DAS BAS
6 27
9-89 9-89

DAS
28
9-89

Location

Loc Qty

Loc Code

over006

450

m133769

450

ST278

12

m133363

12

MS27039-08-06

Purchased

No

110

Each

126.0000

4

4

MS27039-08-06

Screw

**

DAS BAS
6 27
9-89 9-89

DAS
28
9-89

Location

Loc Qty

Loc Code

ST278

126

125646

3

m126249

123

MS27039-08-09

Purchased

No

110

Each

56.0000

4

4

MS27039-08-09

Screw

**

DAS BAS
6 27
9-89 9-89

DAS
28
9-89

Location

Loc Qty

Loc Code

ST278

56

m131317

56

Friday, February 05, 2016 8:27:39 AM

Shop Packet Print

Page 12

APR 18 2016

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐			
Date : _____	Step #: _____	QTY Effective : _____		MRB (QSI042) Approval	
Description Work Order Deviation			Disposition		
			Completed By		
			Lead hand / Supervisor Approval Verification		
			QC / QA Coordinator Approval		
Root Cause Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐		FAULT CATEGORY Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Mislabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐			
☐ OTHER : _____					

Picklist Print

Friday, February 05, 2016 8:27:39 AM

Page 13

Work Order ID: 141575

141575

Parent Item: 646.9502

646 9502

Parent Item Name: 206A / B / L Cable Cutter System, Low

Start Date: 2/16/2016

Required Date: 2/23/2016

Start Qty: 1.00

Required Qty: 1.00

MS27039-08-12

Purchased

No

110

Each

125.0000

2

2

MS27039-08-12

Screw

DAS 27
6 27
9-89 9-89

DAS
28
9-89

Location

Loc Qty

Loc Code

ST278

125

123352

25

124326

100

2

MS27039-1-11

Purchased

No

110

Each

213.0000

5

5

MS27039-1-11

Screw

DAS 27
6 27
9-89 9-89

DAS
28
9-89

Location

Loc Qty

Loc Code

CA

178

124326

178

GA

25

125654

13

9662

12

ST280

10

m131317

10

5

CR3212-4-4

CR3212-4-04

Purchased

No

110

Each

0.0000

1

1

CR3212-4-4

CHERRY RIVET

DAS 27
6 27
9-89 9-89

MS24694-S8

Purchased

No

110

Each

47.0000

5

5

MS24694-S8

Screw

DAS 27
6 27
9-89 9-89

DAS
28
9-89

Location

Loc Qty

Loc Code

ST285

47

M129909

47

5

APR 18 2016

Friday, February 05, 2016 8:27:39 AM

Shop Packet Print

Page 13

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐			
Date :	Step #:	QTY Effective :		MRB (QSI042) Approval	
Description Work Order Deviation			Disposition		
			Completed By		
			Lead hand / Supervisor Approval Verification		
			QC / QA Coordinator Approval		
Root Cause		FAULT CATEGORY			
Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐	No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐	Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐	Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐	Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Mislabeled ☐ Fit/Function ☐ Misaligned/off center ☐	Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐
OTHER : ☐					

Picklist Print

Friday, February 05, 2016 8:27:39 AM

Page 14

Work Order ID: 141575

141575

Parent Item: 646.9502

646 9502

Parent Item Name: 206A / B / L Cable Cutter System, Low

Start Date: 2/16/2016

Required Date: 2/23/2016

Start Qty: 1.00

Required Qty: 1.00

AN3-10A

Purchased

No

110

Each

232.0000

8

8

AN3-10A

Bolt

DAS

6

9-89 DAS

27

9-89

Location

Loc Qty

Loc Code

GA

33

m132763

33

ST349

199

m133694

3

m133992

196

8

1

DAS

6

9-89 DAS

27

9-89

600.0990

Purchased

No

110

Each

32.0000

1

1

600 0990

Magnabond 6398 Part A

Location

Loc Qty

Loc Code

CA002

12

M134167

12

CA2

12

M133800

12

PKG

8

M133938

8

1

1

DAS

6

9-89 DAS

27

9-89

600.0991

Purchased

No

110

Each

32.0000

1

1

600 0991

MAGNOBOND 6398 PART B

Location

Loc Qty

Loc Code

CA002

12

m134167

12

CA2

12

m133800

12

PKG

8

m133938

8

1

APR 18 2016

Friday, February 05, 2016 8:27:39 AM

Shop Packet Print

Page 14

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐							
Date :		Step #:		QTY Effective :			MRB (QSI042) Approval Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval				
Description Work Order Deviation				Disposition							
Root Cause Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐		No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐		FAULT CATEGORY Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐		Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐		Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Mislabeled ☐ Fit/Function ☐ Misaligned/off center ☐		Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐	
				OTHER : ☐							

Picklist Print

Friday, February 05, 2016 8:27:39 AM

Page 15

Work Order ID: 141575

141575

Parent Item: 646.9502

646 9502

Parent Item Name: 206A / B / L Cable Cutter System, Low

Start Date: 2/16/2016

Required Date: 2/23/2016

Start Qty: 1.00

Required Qty: 1.00

600.1012

Purchased

No

110

Each

31.0000

1

1

600 1012

Sealant PR1425B2 (#654 sem)

DAS DAS
6 27
9-89 9-89

APR 18 2016

Location

Loc Qty

Loc Code

cck017

30

m133800

2

~~m133938~~

8

m133992

8

m134167

12

cck018

1

m131364

1

10/30/2015

20P
10/2016

DAS
28
9-89

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐																																																													
Date :		Step #:		QTY Effective :				MRB (QSI042) Approval																																																									
Description Work Order Deviation				Disposition				Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval																																																									
Root Cause		FAULT CATEGORY																																																															
Environment ☐	No Re-verification ☐	Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐	Design ☐	Operator ☐	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐	Doc/Data ☐	Offset/Setup ☐	Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐	Equip/Tooling ☐	Supplier ☐	Cracks ☐	Broken/Damage/Defect ☐	Weld ☐	Part Incorrect ☐	Handling/Pre ☐	Training ☐	Crimp/Kink/Ripple/Wave ☐	Inspection Incomplete/Unqualified ☐	Wrong Stock Pulled ☐	Part Lost/Missing ☐	Material ☐	Use for Testing ☐	Cuffs ☐	Contamination ☐	Out of Sequence ☐	Part Moved ☐	Internal Transport ☐	Poor Information ☐	Crushing ☐	Countersink ☐	Off-set ☐	Drawing ☐	Tribal Knowledge ☐	Rushing ☐	Heat Treat ☐	Cut Too Short ☐	Mislabeled ☐	Finish ☐	LOA ☐	Product Improvement ☐	Wave/Twist in Tube ☐	Instructions Incomplete/Unclear ☐	Fit/Function ☐	Misread ☐	Substation ☐	Process Improvement ☐	Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐	Past Expiry Date ☐	Manufacturing Process ☐	OTHER : _____			
Misidentified ☐	Past Due ☐																																																																

APICAL

INDUSTRIES, INC.

ENGINEERING CHANGE NOTICE NO.

04559

SHEET 1 OF 1

DWG NO. 646.9700

REV: C

PREPARED BY

D. MEJIA

DATE: 06/11/2014

EFFECT ON DWG

☐ INC. ☒ UNINC.

DWG TITLE: CUTTER SUB ASSY

APPROVED BY:

ENGR

[Signature]

MFG

[Signature]

QC

[Signature]

EFF.

NEXT ORDER

TRANSACTION CODES (TC):

A-ADD
R-REVISE

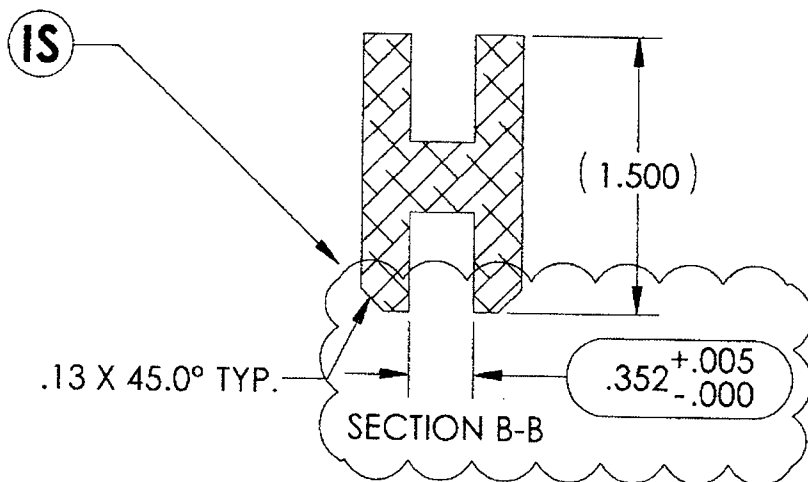
C-CREATE
D-DELETE

REASON: ADDED DIMENSION AND TOLERANCE

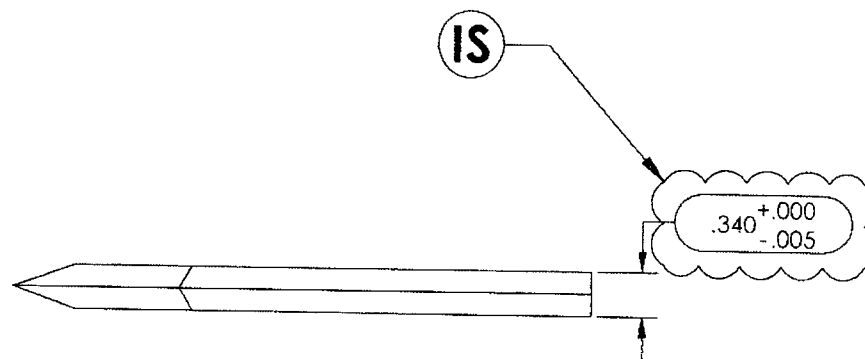
ECR:

D-14-05

SHEET 2, ZONE D7 IS:



SHEET 5, ZONE B5 IS:



141575 MLC
16-02-09

DOCUMENTS EFFECTED:

☐ MDL

☐ INSTALL INSTRUCTIONS

☐ ICA

☐ FMS

☐ BOM

CHANGE CATEGORY

☐ MAJOR

☒ MINOR

DER REVIEW REQUIRED

☐ YES

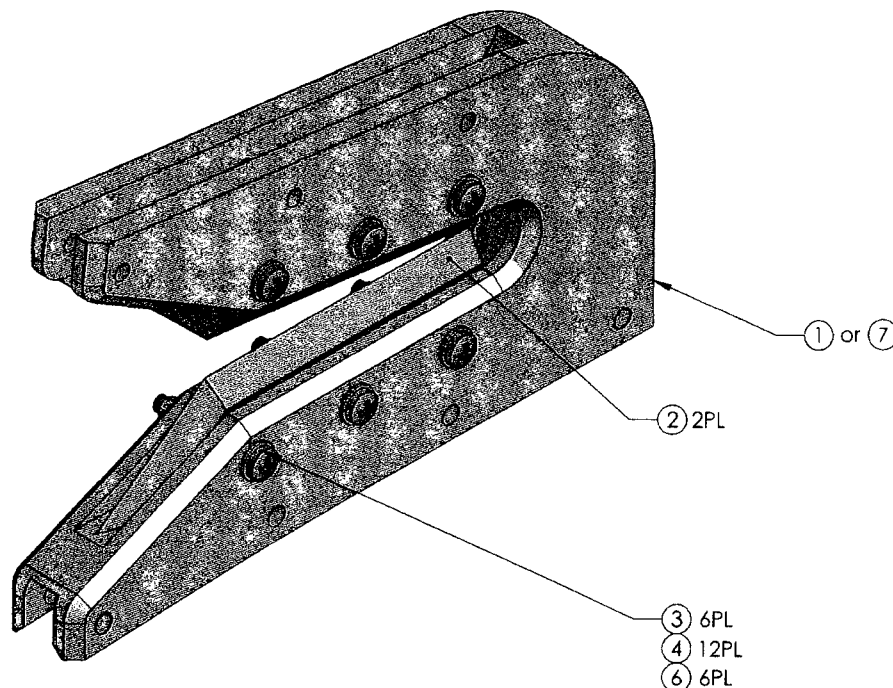
☒ NO

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REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
	LAST PROPOSED REVISION: P2		MC
KJC	INITIAL RELEASE	01/25/89	P. BRAVO
A	INCORPORATED ECN 02744, 02838, 02912	06/02/93	P. BRAVO
B	INCORPORATED ECN 03367	07/03/93	P. BRAVO
C	INCORPORATED ECN 04037	08/09/93	P. BRAVO

NOTES:

- 1 MATERIAL: ALUMINUM 7075-T651 PER AMS-QQ-A-250/12
- 2 FINISH: HARD ANODIZE IAW MIL-A-8625 TYPE III, CLASS 2, COLOR BLACK;
PRETREAT PRC-DESOTO PR-148 ADHESION PROMOTER;
PRIME IAW MIL-P-23377J TYPE I CLASS N; 1-2 MIL MAX
- 3 MATERIAL: AISI A2 TOOL STEEL
CONDITION: ANNEALED
POST PROCESS: HEAT TREAT TO 58-62 Rc ROCKWELL HARDNESS
- 4 FINISH: PRIME IAW MIL-P-23377J TYPE I CLASS N; 1-2 MIL MAX
- 5 DEBURR AND BREAK ALL SHARP EDGES EXCEPT WHERE OTHERWISE NOTED
- 6 IDENTIFY IAW MPP-120
- 7 APPLY F/N 5 AS REQUIRED TO ALL FAYING SURFACES OF F/N 2 UPON ASSEMBLY
- 8 CUTTING EDGE INTENDED TO BE SHARP, DO NOT BREAK SHARP EDGE
- 9 ALL DIMENSIONS NOT SPECIFIED ARE CONTROLLED BY 646.9710.



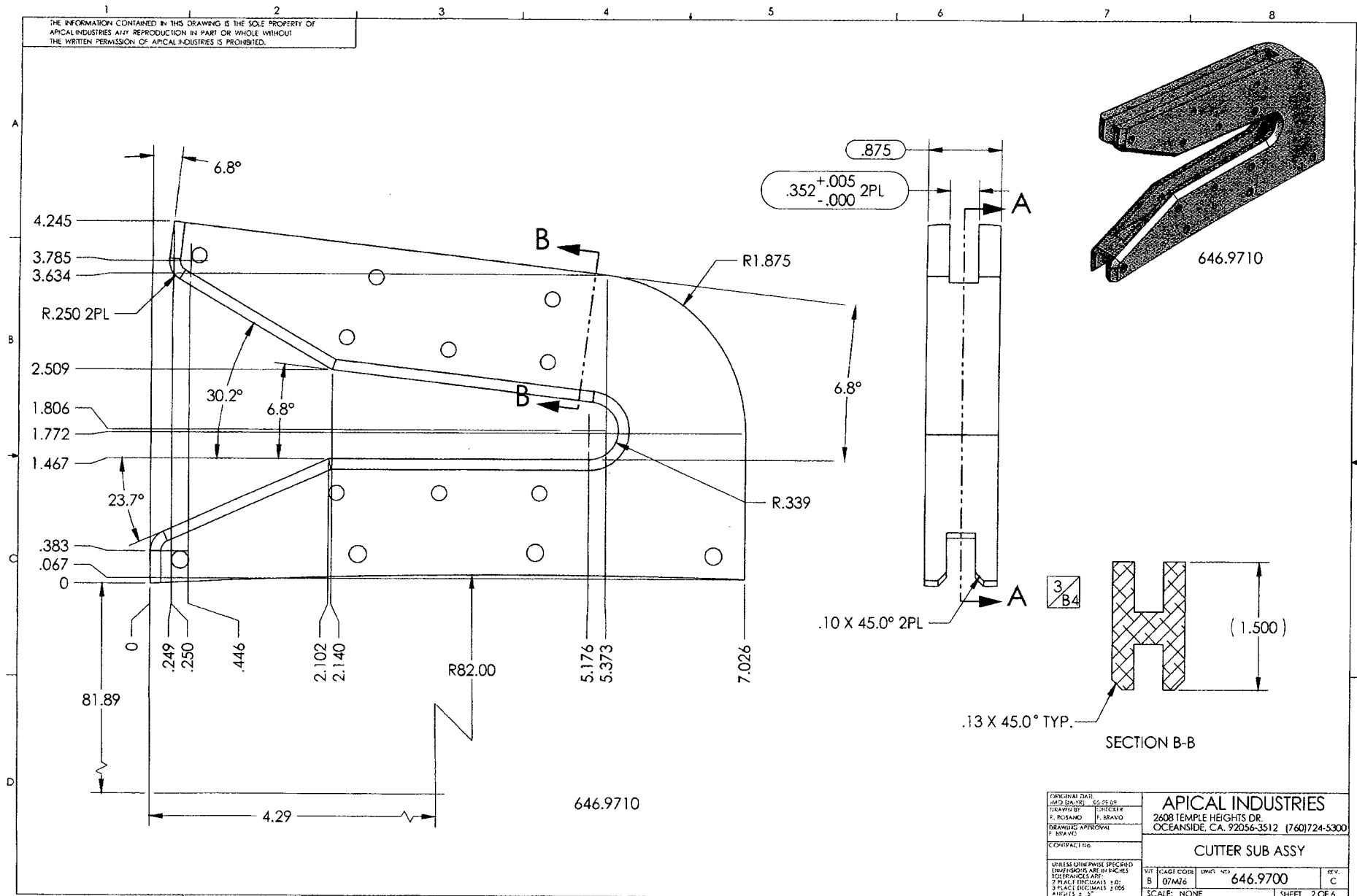
646.9701
or
646.9702

UNINCORPORATED ECN(s)

04559

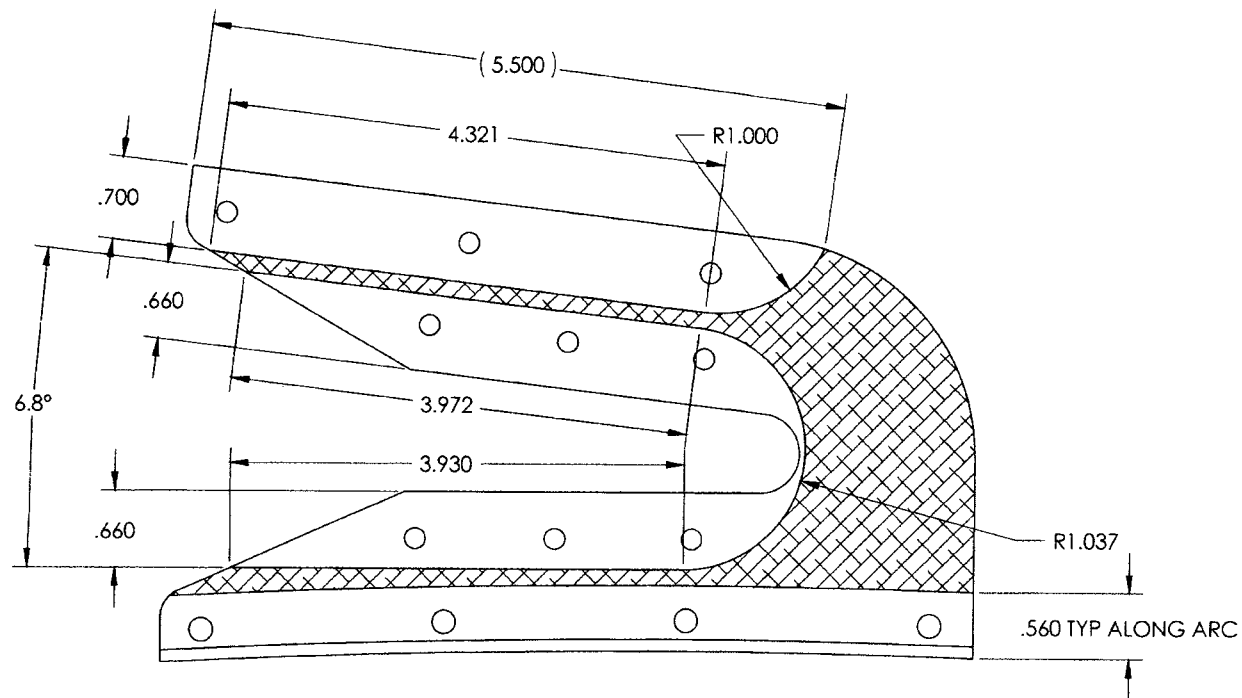
1	7	646.9712	BODY (U CHANNEL)	△	△△
6	6	601.1541	LOCKNUT	MS21042/D8	
A/R	A/R	5	601.2764	RTV, LOCTITE 598	
12	12	4	601.2764	WASHER	HA51149/HB32P
6	6	3	601.2765	SCREW	MS27039-QB19
2	2	2	646.9711	BLADE	△
	1	1	646.9710	BODY	△
			646.9702	CUTTER SUB ASSY (U CHANNEL)	
			646.9701	CUTTER SUB ASSY	
9702	9701	FIND #	PART #	DESCRIPTION	MATL SPEC.
PARTS LIST					
QTY	NEXT ASSY (S)				
646.9600	APICAL INDUSTRIES				
	2608 TEMPLE HEIGHTS DR.				
	OCEANSIDE, CA. 92056-3512 (760)724-5300				
	CUTTER SUB ASSY				
	UNLESS OTHERWISE SPECIFIED	SIZE	CLASH FITTING	UNCL. DIM.	REV.
	DIMENSIONS ARE IN INCHES	3	07M26	646.9700	C
	2 PLACES DECIMALS ±.01				
	3 PLACES DECIMALS ±.005				
	ANGLES ±.5°				
	SCALE NONE				SHEET 1 OF 6

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ORIGINAL DATE APR 23, 1978		DESIGNED BY R. ROSANO		CHECKED BY F. BRAYO	
DRAWING APPROVAL F. BRAYO		CONTRACT NO.		UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: 2 PLACE DECIMALS ±.01 3 PLACE DECIMALS ±.005 ANGLES ±.5°	
APICAL INDUSTRIES 2608 TEMPLE HEIGHTS DR. OCEANSIDE, CA. 92056-3512 (760)724-5300		CUTTER SUB ASSY		REV. C	
VIR. PLANT CODE B. 07M36		PART NO. 646.9700		SCALE: NONE	
SHEET		2 OF 6			

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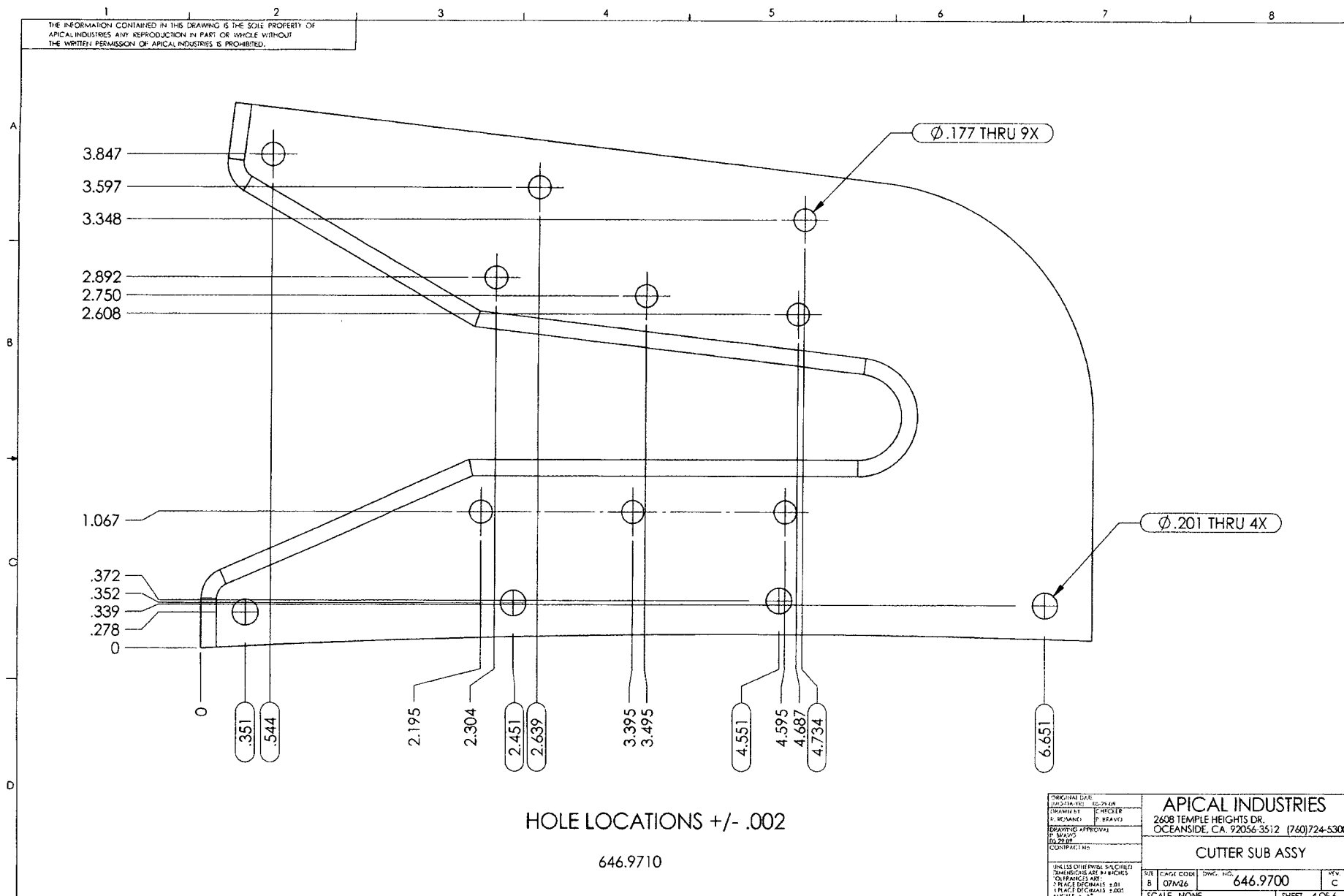


SECTION A-A 2/C6

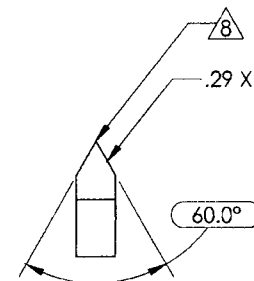
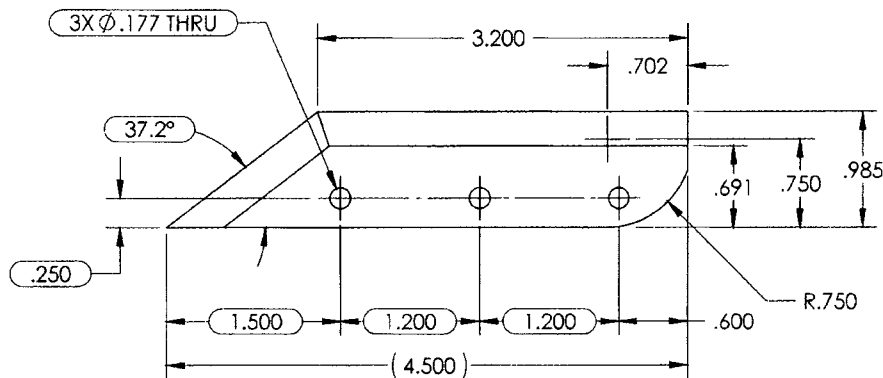
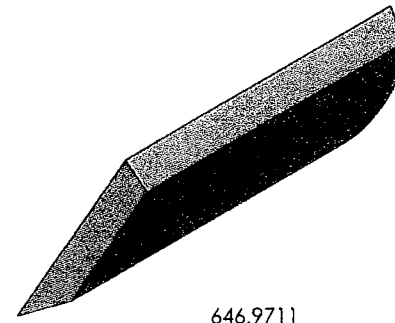
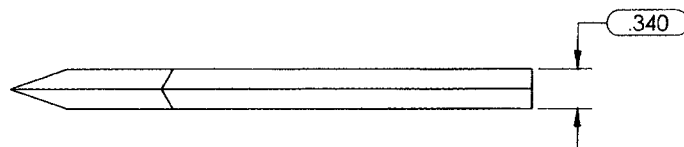
646.9710

ORIGINAL DATE BY: DA-VEI CHECKED P. RYLAND P. BRAVO DRAWING APPROVAL P. RYLAND DATE: 06-20-00 P. CONTRACTING		APICAL INDUSTRIES 2608 TEMPLE HEIGHTS DR. OCEANSIDE, CA. 92056-3512 (760)724-5300	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: 2 PLACE DECIMALS ± .01 3 PLACE DECIMALS ± .005 ANGLES ± .5°		CUTTER SUB ASSY	
SHEET	CAGE CODE	QWIC: NO	REV.
B	07M26	646.9700	C
SCALE: NONE		SHEET	3 OF 6

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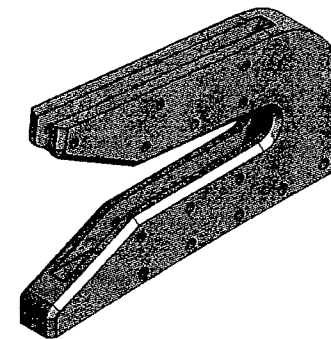
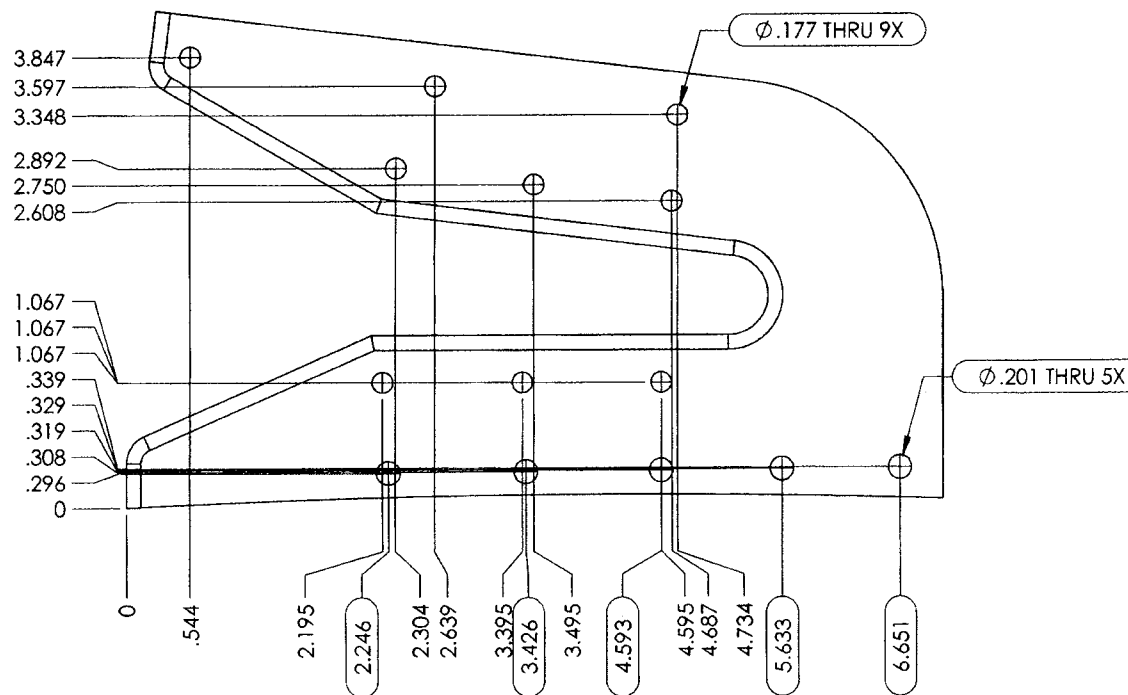
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THE WRITTEN PERMISSION OF APICAL INDUSTRIES IS PROHIBITED.



646.9711

ORIGINAL DATE REV. DATE REV. BY REV. BY REV. BY REV. BY REV. BY REV. BY		APICAL INDUSTRIES 2608 TEMPLE HEIGHTS DR. OCEANSIDE, CA. 92056-3512 (760)724-5300	
DRAWING APPROVAL P. BRAY C. BRAY		CUTTER SUB ASSY	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES FRACTIONS ARE: 2 PLACE DECIMALS 1/16" 3 PLACE DECIMALS 1/32" ANGLES ± .5°		SHEET CODE B	REV. C
SCALE: NONE		DATE: 07/06/86	SHEET 5 OF 6

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646.9712 $\triangle 9$

646.9712

ORIGINAL DATE: 05-22-09 REV. DATE: 07-22-09		APICAL INDUSTRIES	
DRAWN BY: R. RUBANO		2608 TEMPLE HEIGHTS DR.	
CHECKED BY: P. BRANCO		OCEANSIDE, CA. 92056-3512 (760)724-5300	
DRAWING APPROVAL: P. BRANCO		CUTTER SUB ASSY	
CONTRACT NO.		REV. 8	REV. C
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: 2 PLACE DECIMALS $\pm .010$ 3 PLACE DECIMALS $\pm .005$ ANGLES $\pm .5^\circ$		SCALE: NONE	SHEET 6 OF 6

REFERENCE ONLY
28
9-89

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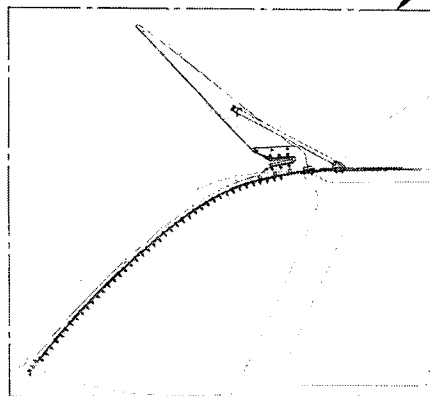
NOTES:

△ AFTER INSTALLATION, APPLY F/N 46 A/R TO FILL GAPS AND FILLET EDGES

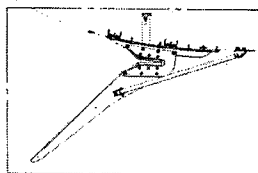
UNINCORPORATED ECN(S)

02729, 02736, 03047

DETAIL A



DETAIL B



QTY	FIND #	PART #	DESCRIPTION	MATL	SPEC.
1	1	49	601.1066 RIVET	CR321.2-4-4	
1	1	48	600.0991 MAGNABOND ASSY PART B		
1	1	47	600.0990 MAGNABOND ASSY PART A		
1	1	46	600.1012 SEALANT	PP-155 ELASTIC	
5	5	45	601.1949 SCREW	MS27039-1-11	
2	2	44	601.2989 SCREW	MS27039-0812	
4	4	43	601.2987 SCREW	MS27039-0809	
4	4	42	601.3000 SCREW	MS27039-0806	
9502	9501	FIND #	PART #	DESCRIPTION	MATL SPEC.

REV.	DESCRIPTION	DATE	APPROVED
1	LAST PRODUCTION REVISION: PFC		HIC
1	INITIAL RELEASE	04/03/09	P. BRAYO

47	47	41	601.2893	SCREW	MS27039-0811	
1	1	40	601.2982	HOSE CLAMP	MS35842-11	
1	1	39	647.1210	SCREEN		
5	5	38	601.1621	SCREW	MS27039-4-08	
14	14	37	601.2979	RIVET	CR321.3-4-1	
4	4	36	601.2984	INSERT	MS1835-08	
4	4	35	601.2277	RIVET	CR321.3-4-02	
8	8	34	601.2983	RIVET	CR321.2-5-4	
12	12	33	601.2980	NUTPLATE RIVET	CR321.3-4-04	
1	1	32	601.2822	BOLT	AN3-3A	
1	1	31	601.2985	BRACKET	AN743-13	
2	2	30	601.1900	NUTPLATE	MS21069-3	
6	6	29	601.2988	SCREW	MS27039-0513	
53	53	28	601.2973	LOCKNUT	MS21042-08	
6	6	27	600.0795	NUTPLATE	MS21047-3	
18	18	26	601.0790	RIVET	CR321.3-4-3	
18	18	25	601.1039	RIVET	CR321.3-4-2	
19	19	24	601.1915	RIVET	CR321.3-4-4	
20	20	23	601.2991	RIVET	CR321.3-1-6	
26	26	22	601.1183	RIVET	CR321.3-4-5	
4	4	21	601.2356	NUTPLATE	MS21051-08	
8	8	20	601.2981	NUTPLATE RIVET	CR321.3-4-06	
17	17	19	601.2943	LOCKNUT	MS21042-3	
16	16	18	601.2826	BOLT	AN3-11A	
46	46	17	601.1607	WASHER	MS1818-030P	
114	114	16	601.2764	WASHER	MS1818-030P	
1	1	15	647.0115	CLIP		
1	1	14	647.0114	CLIP		
1	1	13	647.0410	TUBE		
2	2	12	647.0116	DOUBLER		
1	1	11	647.0111	PANEL		
2	2	10	647.0113	STRUT DOUBLER		
8	8	9	647.0112	STRUT BRACKET		
4	4	8	646.9910	STRUT		
2	2	7	647.0310	CHANNEL		
1	1	6	647.0110	ROOF DOUBLER		
1	1	5	647.0210	RAIL		
1	1	4	646.9810	DEFLECTOR		
1	1	3	646.9603	LOWER CUTTER ASSY LOW		
1	1	2	646.9602	LOWER CUTTER ASSY HIGH		
1	1	1	646.9601	UPPER CUTTER ASSY		
1	1	1	646.9602	FOR CABLE CUTTERS KIT LOW		
1	1	1	646.9501	FOR CABLE CUTTERS KIT HIGH		

QTY	FIND #	PART #	DESCRIPTION	MATL	SPEC.
1	1	49	601.1066 RIVET	CR321.2-4-4	
1	1	48	600.0991 MAGNABOND ASSY PART B		
1	1	47	600.0990 MAGNABOND ASSY PART A		
1	1	46	600.1012 SEALANT	PP-155 ELASTIC	
5	5	45	601.1949 SCREW	MS27039-1-11	
2	2	44	601.2989 SCREW	MS27039-0812	
4	4	43	601.2987 SCREW	MS27039-0809	
4	4	42	601.3000 SCREW	MS27039-0806	
9502	9501	FIND #	PART #	DESCRIPTION	MATL SPEC.

APICAL INDUSTRIES
2608 TEMPLE HEIGHTS DR.
OCEANSIDE, CA. 92056-3512 (760) 724-5300
206 CABLE CUTTERS KIT
SCALE NONE SHEET 1 OF 3

APICAL INDUSTRIES, INC.	ENGINEERING CHANGE NOTICE NO. 02736				SHEET 1 OF 1	
	DWG NO. 646.9500		REV: N/C	PREPARED BY S. HUFF	DATE: 01/06/10	EFFECT ON DWG ☐ INC. ☒ UNINC.
	DWG TITLE: 206 CABLE CUTTERS KIT					
	APPROVED BY:	ENGR <i>[Signature]</i>	MFG <i>[Signature]</i>	QC <i>[Signature]</i>	EFF: CURRENT ORDER	
TRANSACTION CODES (TC) A-ADD C-CREATE R-REVISE D-DELETE		REASON: CORRECTED PARTS LIST ERRORS				

REFERENCE ONLY

17	R	601.1607	62	62	WASHER	NAS1149F0332P
16	R	601.2764	111	111	WASHER	NAS1149FN832P
			9502	9501		
F/N	TC	PART NUMBER	QTY	DESCRIPTION		MATERIAL/SPECIFICATION
DOCUMENTS EFFECTED: ☐ MDL ☒ INSTALL INSTRU ☒ ICA ☐ FMS ☒ BOM						CHANGE CATEGORY ☐ MAJOR ☒ MINOR
						DER REVIEW REQUIRED ☐ YES ☒ NO

APICAL INDUSTRIES, INC.	ENGINEERING CHANGE NOTICE NO. 02729				SHEET 1 OF 3		
	DWG NO. 646.9500		REV: N/C		PREPARED BY S. HUFF		
	DATE: 12/23/09		EFFECT ON DWG ☐ INC. ☒ UNINC.				
	DWG TITLE: 206 CABLE CUTTERS KIT						
APPROVED BY:		ENGR <i>[Signature]</i>		MFG <i>[Signature]</i>		QC <i>[Signature]</i>	
		EFF: CURRENT ORDER					
TRANSACTION CODES (TC): A-ADD C-CREATE R-REVISE D-DELETE		REASON: HARDWARE REVISIONS FROM FIRST INSTALL					

REFERENCE ONLY

51	A	601.3155	8	8	BOLT	AN3-10A
50	A	601.3153	5	5	SCREW	MS24694S8
41	R	601.2893	43	43	SCREW	MS27039-0811
28	R	601.2973	54	54	LOCKNUT	MS21042-08
18	R	601.2826	8	8	BOLT	AN3-11A
16	R	601.2764	127	127	WASHER	NAS1149FN832P
			9502	9501		
F/N	TC	PART NUMBER	QTY		DESCRIPTION	MATERIAL/SPECIFICATION
DOCUMENTS EFFECTED: ☐ MDL ☒ INSTALL INSTRUC ☒ ICA ☐ FMS ☒ BOM						CHANGE CATEGORY ☐ MAJOR ☒ MINOR
						DER REVIEW REQUIRED ☐ YES ☒ NO